

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	09/801,130-Conf. #5182	
			Filing Date	March 7, 2001	
			First Named Inventor	Eric Bonabeau	
			Art Unit	3623	
			Examiner Name	P. H. Choi	
Sheet	1	of	1	Attorney Docket Number	ICO-00701


U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PC	AA*	US-6,763,354-A1	07-13-2004	Hosken et al.	
PC	AB*	US-6,952,700-A1	10-04-2005	Modha et al.	
PC	AC*	US-7,007,006-A1	02-28-2006	Zilio et al.	
PC	AD*	US-7,076,475-A1	07-11-2006	Honarvar	
PC	AE*	US-7,191,164-A1	03-13-2007	Ray et al.	

FOREIGN PATENT DOCUMENTS					
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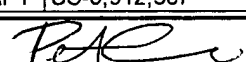
NON PATENT LITERATURE DOCUMENTS			
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PC	AA*	US-5,195,172	03-16-1993	Elad et al.	
PC	AB*	US-5,428,712	06-27-1995	Elad et al.	
PC	AC*	US-5,617,510	04-01-1997	Keyrouz et al.	
PC	AD*	US-5,761,494	06-02-1998	Smedley et al.	
PC	AE*	US-5,890,146	03-30-1999	Wavish et al.	
PC	AF*	US-5,963,447	10-05-1999	Kohn et al.	
PC	AG*	US-5,963,939	10-05-1999	McCann et al.	
PC	AH*	US-6,253,200	06-26-2001	Smedley et al.	
PC	AI*	US-6,336,110	01-01-2002	Tamura et al.	
PC	AJ*	US-6,411,373	06-25-2002	Garside et al.	
PC	AK*	US-6,424,358	07-23-2002	DiDomizio et al.	
PC	AL*	US-6,430,545	08-06-2002	Honarvar et al.	
PC	AM*	US-6,571,282	05-27-2003	Bowman-Amuah	
PC	AN*	US-6,745,184	06-01-2004	Choi et al.	
PC	AO*	US-6,760,335	07-06-2004	Andersson et al.	
PC	AP*	US-6,895,405	05-17-2005	Choi et al.	
PC	AQ*	US-6,928,434	08-09-2005	Choi et al.	
PC	AR*	US-6,950,270	09-27-2005	Lyle et al.	
PC	AS*	US-6,996,560	02-07-2006	Choi et al.	
PC	AT*	US-7,003,504	02-21-2006	Angus et al.	
PC	AU*	US-7,000,700	02-21-2006	Cairns et al.	
PC	AV*	US-7,070,647	07-04-2006	Fujimori et al.	
PC	AW*	US-7,117,202	10-03-2006	Willoughby	
PC	AX*	US-7,190,116	03-13-2007	Kobayashi et al.	
PC	AY*	US-5,568,590	10-22-1996	Tolson	
PC	AZ*	US-5,581,657	12-03-1996	Lyon	
PC	AA1*	US-5,708,774	01-13-1998	Boden	
PC	AB1*	US-5,761,381	06-02-1998	Arci et al.	
PC	AC1*	US-5,793,931	08-11-1998	Hillis	
PC	AD1*	US-5,809,489	09-15-1998	Davidor et al.	
PC	AE1*	US-5,864,633	01-26-1999	Opsal et al.	
PC	AF1*	US-5,867,397	2-2-1999	Koza et al.	
PC	AG1*	US-5,930,780	07-27-1999	Hughes et al.	
PC	AH1*	US-5,970,487	10-19-1999	Shackleford et al.	
PC	AI1*	US-5,987,457	11-16-1999	Ballard	
PC	AJ1*	US-6,055,523	04-25-2000	Hillis	
PC	AK1*	US-6,098,059	08-01-2000	Nordin et al.	
PC	AL1*	US-6,327,582	12-04-2001	Worzel	
PC	AM1*	US-6,434,542	08-13-2002	Farmen et al.	
PC	AN1*	US-6,449,761	09-10-2002	Greidinger et al.	
PC	AO1*	US-6,523,016	02-18-2003	Michalski	
PC	AP1*	US-6,912,587	06-28-2005	O'Neil	
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PC	AQ1*	US-6,934,405	08-23-2005	Schuessler et al.	
PC	AR1*	US-6,950,712	09-27-2005	Ulyanov et al.	
PC	AS1*	US-6,957,200	10-18-2005	Buczak et al.	
PC	AT1*	US-20030055614-A1	03-20-2003	Pelikan et al.	
PC	AU1*	US-20030088458-A1	05-08-2003	Afeyan et al.	
PC	AV1*	US-20040133355-A1	07-08-2004	Schneider	
PC	AW1*	US-20040204957-A1	10-14-2004	Afeyan et al.	
PC	AX1*	US-20010003824-A1	06-14-2001	SCHNIER	
PC	AY1*	US-20020156773-A1	10-24-2002	Hildebrand et al.	

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PC	BA	EP-1235180	08-28-2002	Honda R & D Europ GMBH		
PC	BB	WO-0054185	09-14-2000	Procter & Gamble		
PC	BC	WO-0227541	04-04-2002	Intel Corp et al.		


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PC	CA	BUCHSBAUM, D. et al "Designing Collective Behavior in a Group of Humans Using a Real-Time Polling System and Interactive Evolution", Swarm Intelligence Symposium, 2005. SIS 2005. Proceedings 2005 IEEE 8-10 June 2005 Publication Pages: 15 - 21 (Our pages 1 - 13)		
PC	CB	TRIFONOV, I., et al "Resource Allocation for a Distributed Sensor Network", Swarm Intelligence Symposium, 2005. SIS 2005. Proceedings 2005 IEEE 8 - 10 June 2005 Publication Pages 428 - 431 (Our pages 1 - 4)		
PC	CC	GAUDIANO, P. et al "Evolving Behaviors for a Swarm of Unmanned Air Vehicles", Swarm Intelligence Symposium, 2005. SIS 2005. Proceedings 2005 IEEE 8 - 10 June 2005 Publication Pages 317 - 324 (Our pages 1 - 6, 13, 14)		
PC	CD	ANDERSON, C., et al "Modeling, Quantifying and Testing Complex Aggregate Service Chains", Web Services, 2005. ICWS 2005. Proceedings. 2005 IEEE International Conference on 11-15 July 2005 Publication Pages 274 - 281 vol. 1 (Our pages 1 - 8)		
PC	CE	FUNES, P., et al., "Interactive Multi-Participant Tour Allocation", Evolutionary Computation, 2004. CEC2004. Congress on Volume 2, 19-23 June 2004 Pages 1699 - 1705 Vol. 2		
PC	CF	MALINCHIK, S., "Interactive Exploratory Data Analysis", Evolutionary Computation, 2004. CEC2004. Congress on Volume 1, 19-23 June 2004 Pages 1098 - 1104 Vol. 1		


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PC	CG	ANDERSON, C., et al., "Evolutionary Testing as Both a Testing and Redesign Tool: a Study of a Shipboard Firemain's Valve and Pump Controls", Evolution Computation, 2004. CEC2004. Congress on Volume 1, 19-23 June 2004 Pages 1089 - 1097 Vol. 1
PC	CH	ASHBURN, T., et al., "Interactive Inversion of Financial Markets Agent-Based Models", Evolutionary Computation, 2004. CEC 2004. Congress on Volume 1, 19-23 June 2004 Pages 522 - 529 Vol. 1
PC	CI	POLLACK, J., et al., "Coevolutionary Robotics" Evolvable Hardware, 1999. Proceedings of the First NASA/DoD Workshop on 19-21 July 1999 Pages 208 - 216
PC	CJ	KUMAR, R., et al., "Assessing the Convergence of Rank-Based Multiobjective Genetic Algorithms", Genetic Algorithms in Engineering Systems: Innovations And Applications, 1997. GALESIA 97. Second International Conference on (Conf. Publ. No. 446) 2-4 Sept. 1997 Pages 19 - 23
PC	CK	VAN DER MECHE, E., "Nevanlinna-Pick Interpolation with Degree Constraint: Complete Parameterization Based on Lyapunov Inequalities", Decision and Control, 2004. CDC. 43rd IEEE Conference on Volume 1, 14-17 Dec. 2004 Pages 411 - 416 Vol. 1
PC	CL	KALTOFEN, E., et al., "Processor-Efficient Parallel Solution of Linear Systems. II. The Positive Characteristic and Singular Cases" Foundations of Computer Science, 1992. Proceedings., 33rd Annual Symposium on 24-27 Oct. 1992 Pages 714 - 723
PC	CM	DE MOOR, B., et al., "A Geometrical Approach to the Maximal Corank Problems in the Analysis of Linear Relations", Decision and Control, 1986 25th IEEE Conference on Volume 25, Part 1, Dec. 1986 Pages 1990 - 1995
PC	CN	LINKENS, D.A., et al. "A Distributed Genetic Algorithm for Multivariable Fuzzy Control", Genetic Algorithms for Control Systems Engineering, IEEE Colloquium on 28 May 1993 Pages 9/1 - 9/3
PC	CO	SAKAWA, M., et al., "An Interactive Fuzzy Satisficing Method for Multiobjective Nonconvex Programming Problems With Fuzzy Numbers Through Coevolutionary Genetic Algorithms" Systems, Man and Cybernetics, Part B, IEEE Transactions on Volume 31, Issue 3, June 2001 Pages 459 - 467 Digital Object Identifier 10.1109/3477.931546
PC	CP	HU GUOQIANG, et al., "Multiobjective Optimization Scheduling Based on Fuzzy Genetic Algorithm in Cascaded Hydroelectric Stations", Transmission and Distribution Conference and Exhibition: Asia and Pacific, 2005 IEEE/PES 2005 Page 1 - 4 Digital Object Identifier 10.1109/TDC.2005.1547075
PC	CQ	DASHENG LIU, et al., "A Multiobjective Memetic Algorithm Based on Particle Swarm Optimization", Systems, Man and Cybernetics, Part B, IEEE Transactions on Volume 37, Issue 1, Feb. 2007 Pages 42 - 50 Digital Object Identifier 10.1109/TSMCB.2006.883270
PC	CR	RODRIGUEZ-VAZQUEZ, K. et al., "Multi-Objective Genetic Programming for Nonlinear System Identification", Electronics Letters Volume 34, Issue 9, 30 April 1998 Pages 930 - 931
PC	CS	PU HAN, et al., "A Multi-Objective Genetic Programming/NARMAX Approach to Chaotic Systems Identification", Intelligent Control and Automation, 2006. WCICA 2006. The Sixth World Congress on Volume 1, 2006 Pages 1735 - 1739 Digital Object Identifier 10.1109/WCICA.2006.1712650
PC	CT	TAN, K.C., et al., "Enhanced Distribution and Exploration for Multiobjective Evolutionary Algorithms", Evolutionary Computation, 2003. CEC '03. The 2003 Congress on Volume 4, 8-12 Dec. 2003 Pages 2521 - 2528 Vol. 4 Digital Object Identifier 10.1109/CEC.2003.1299405

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PC	CU	MACEACHERN, L.A., "Constrained Circuit Optimization Via Library Table Genetic Algorithms" Circuits and Systems, 1999. ISCAS '99. Proceedings of the 1999 IEEE International Symposium on Volume 6, 30 May-2 June 1999 Pages 310 - 313 Vol. 6 Digital Object Identifier 10.1109/ISCAS.1999.780157	
PC	CV	CARRANO, E.G., et al., "Electric Distribution Network Multiobjective Design Using a Problem-Specific Genetic Algorithm", Power Delivery, IEEE Transactions on Volume 21, Issue 2, April 2006 Pages 995 - 1005 Digital Object Identifier 10.1109/TPWRD.2005.858779	
PC	CW	DONG-HYEOK CHO, et al., "Multiobjective Optimal Design of Interior Permanent Magnet Synchronous Motors Considering Improved Core Loss Formula", IEEE Transactions on Energy Conversion, Volume 14, Issue 4, Dec. 1999 Pages 1347 - 1352 Digital Object Identifier 10.1109/60.815071	
PC	CX	LI-CUN FANG, et al., "Concurrent Optimization for Parameters of Powertrain and Control System of Hybrid Electric Vehicle Based on Multi-Objective Genetic Algorithms", SICE-ICASE, 2006. International Joint Conference Oct. 2006 Page 2424 - 2429 Digital Object Identifier 10.1109/SICE.2006.315114	
PC	CY	KATO, K., et al., "Large Scale Fuzzy Multiobjective 0-1 Programs Through Genetic Algorithms with Decomposition Procedures", Knowledge-Based Intelligent Electronic Systems, 1998. Proceedings KES '98. 1998 Second International Conference on Volume 1, 21-23 April 1998 Pages 278 - 284 vol. 1 Digital Object Identifier 10.1109/KES.1998.725859	
PC	CZ	ESBENSEN, H., et al., "Design Space Exploration Using the Genetic Algorithm," Circuit and Systems, 1996. ISCAS '96., 'Connecting the World', 1996 IEEE International Symposium on Volume 4, 12-15 May 1996 Pages 500 - 503 vol. 4 Digital Object Identifier 10.1109/ISCAS.1996.542010	
PC	CA1	THEN, T.W., et al., "Genetic Algorithms in Noisy Environment", Intelligent Control, 1994., Proceedings of the 1994 IEEE International Symposium on 16-18 Aug. 1994 Pages 225 - 230 Digital Object Identifier 10.1109/ISIC.1994.367813	
PC	CB1	GOPINATH, D., et al., "An Integrated Methodology for Multiobjective Optimal Component Placement and Heat Sink Sizing", Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on] Volume 28, Issue 4, Dec. 2005 Page 869 - 876	
PC	CC1	DONG-JOON SIM, et al., "Application of Vector Optimization Employing Modified Genetic Algorithm to Permanent Magnet Motor Design", Magnetics, IEEE Transactions on Volume 33, Issue 2, part 2, March 1997 Page 1888 - 1891 Digital Object Identifier 10.1109/20.582654	
PC	CD1	ISHIBUSHI, H., et al., "Comparison Between Single-Objective and Multi-Objective Genetic Algorithms: Performance Comparison and Performance Measures", Evolutionary Computation, 2006. CEC 2006. IEEE Congress on 16-21 July 2006 Pages 1143 - 1150	
PC	CE1	LI MINGQIANG, et al., "GA-Based Multi-Objective Optimization" Intelligent Control and Automation, 2000. Proceedings of the 3rd World Congress on Volume 1, 28 June-2 July 2000 Page 637 - 640 vol. 1 Digital Object Identifier 10.1109/WCICA.2000.860050	
PC	CF1	WANG, Jihua et al., "An Optimization-Based Algorithm for Job Shop Scheduling," University of Connecticut, Dept. of Electrical Engineering Publishing, MSL Papers, 28 March 2004 (28.03.2004), p. 10.	
PC	CG1	INTERNATIONAL SEARCH REPORT AND WRITTEN OPINION for PCT/US 06/36765.	
PC	CH1	VALENZUELA, Christine L., "A Simple Evolutionary Algorithm for Multi-Objective Optimization (SEAMO)," Evolutionary Computation, 2002, 1:717-722 (2002)	
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PC	CI1	VAN VELDHUIZEN, David A., "Issues in Parallelizing Multiobjective Evolutionary Algorithms for Real World Applications," Proceedings of the 17th Symposium on Proceedings of the 2002 ACM Symposium on applied computing, March 2002, pp. 595-602	
PC	CJ1	RONALD, S., "Duplicate genotypes in a genetic algorithm," Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence., The 1998 IEEE International Conference on 4-9 May 1998 Pages(s): 793-798, Digital Object Identifier 10.1109/ICEC.1998.700153	
PC	CK1	CRANFIELD, et al., "Exposure of magnetic bacteria to simulated mobile phone-type RF radiation has no impact on mortality," Nanobioscience, IEEE Transactions on Volume 2, Issue 3, Sept. 2003 Page(s): 146-149, Digital Object Identifier 10.1009/TNB.2003.816227	
PC	CL1	BAEZA-YATES R., et al: "Modern Information Retrieval, Chapter 5: Query Operations" Modern Information Retrieval, Harlow: Addison-Wesley, GB, 1999, pp. 117-139, XP002311981, ISBN: 0-201-39829-X.	
PC	CM1	BEASLEY D., et al.: "An Introduction to Genetic Algorithms", Vivek, National Centre for Software Technology, Bombay, In, Vol. 7, No. 1, pp. 3-19, XP001061908, ISSN: 0970-8618.	

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